

U.S. DEPARTMENT OF LABOF  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1387

# MATERIAL SAFETY DATA SHEET

*DPM*  
*2260 Series*

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME Alcan Metal Powders, Div. of Alcan Aluminum Corp.		EMERGENCY TELEPHONE NO. (201) 353-4605
ADDRESS (Number, Street, City, State, and ZIP Code) P. O. Box 290, Elizabeth, N. J. 07207		
CHEMICAL NAME AND SYNONYMS Aluminum		TRADE NAME AND SYNONYMS MD 13 Alum. Powder
CHEMICAL FAMILY N.A.	FORMULA Al	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL Aluminum	100	N.A.
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.) °C	2056° ImmC	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	2.70
VAPOR PRESSURE (mm Hg.)	1284°C	PERCENT VOLATILE BY VOLUME (%)	0.00
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____ =1)	N.A.
SOLUBILITY IN WATER	Insol.	Melting Point, °C	660°
APPEARANCE AND ODOR	Silvery Metallic-Odorless		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N.A.	FLAMMABLE LIMITS OZ. per 1000 Ft. <sup>3</sup>	Lel 30	Uel
EXTINGUISHING MEDIA	Dry Sand			
SPECIAL FIRE FIGHTING PROCEDURES Avoid water, chlorinated hydrocarbons and the generation of highly explosive aluminum dust clouds in air.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Avoid water, strong acids, alkalis and chlorinated hydrocarbons. Forms explosive mixture with air. Do not store near open flame.				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	N.A.
EFFECTS OF OVEREXPOSURE	Eyes may be irritated. Inhalation of finely divided Alum. powder has been reported as a cause of pulmonary fibrosis.
EMERGENCY AND FIRST AID PROCEDURES	Remove from exposure.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	Heat, sparks, open flame, fire & water
INCOMPATIBILITY (Materials to avoid) Water, acids, alkalis chlorinated hydrocarbons & strong oxidizing agents*			
HAZARDOUS DECOMPOSITION PRODUCTS Alum. reacts with water, acid or alkalis to form hydrogen gas			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove ignition sources. Keep people away. Avoid exposure to sparks fire or hot metal surfaces. Using spark-proof tools (shovels) transfer spilled material to a leak-proof container for waste disposal.	
WASTE DISPOSAL METHOD Dispose in safe approved area in accordance with local, state and Federal Regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type) O.S.H.A approved dust respirator		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General) Expl. proof ventilation Equip.	OTHER No smoking or open lights
PROTECTIVE GLOVES	N.A.	EYE PROTECTION Goggles
OTHER PROTECTIVE EQUIPMENT Hair covering		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING See attached copy of Alum. Association's, "Recommendations for Storage & Handling of Aluminum Pigments and Powder."	
OTHER PRECAUTIONS Fire fighting methods-NFPA No. 651, Chapter 10, Fire extinguishers. NFPA. #65-1973 & NFPA. #10-1972 (ANSI 2112-1-1972)	